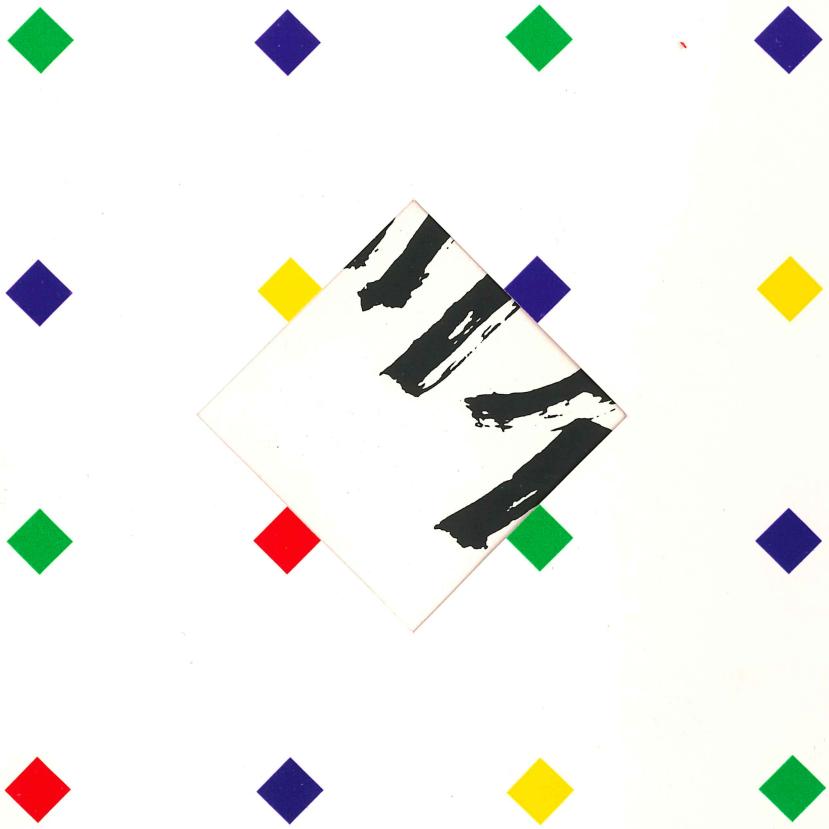


■ **DESIGN OBJECTIVES**/PRODUCTION UNIT

A REDUCE COST

B REDUCE SIZE & WEIGHT

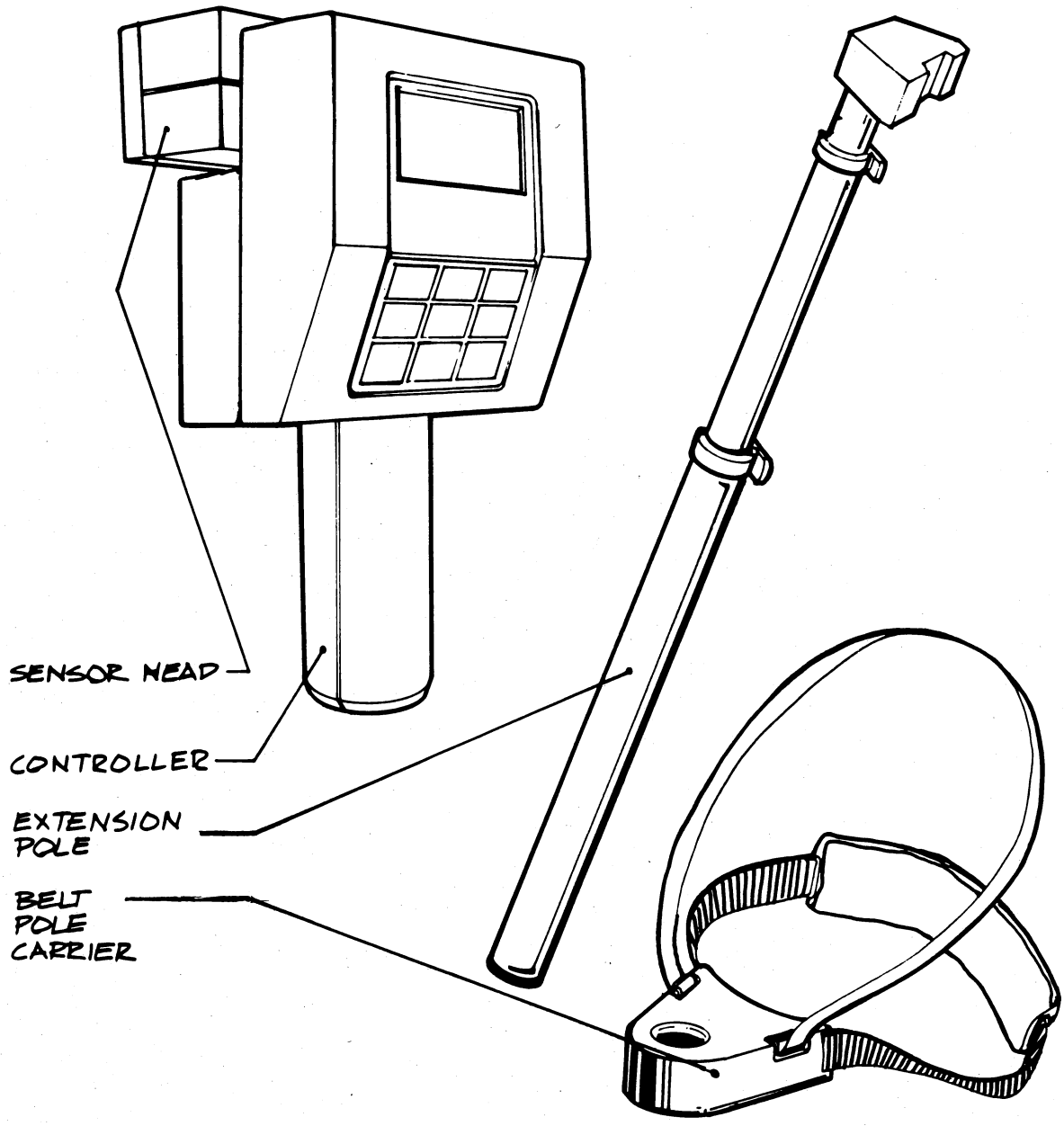
C DESIGN FOR MARKET/USER FLEXIBILITY
- TALL CROPS
- SHORT CROPS
- IN-FIELD MONITORING
- MONITORING FROM VEHICLE
- REMOTE SENSING

D MAXIMIZE USER FRIENDLINESS
ERGONOMICS OF FORM & SWITCH LOCATION
GOOD HUMAN FACTORS IN DISPLAY
FORMAT & LAYOUT OF CONTROLS
FACILITATE AIMING & PROPER SENSING

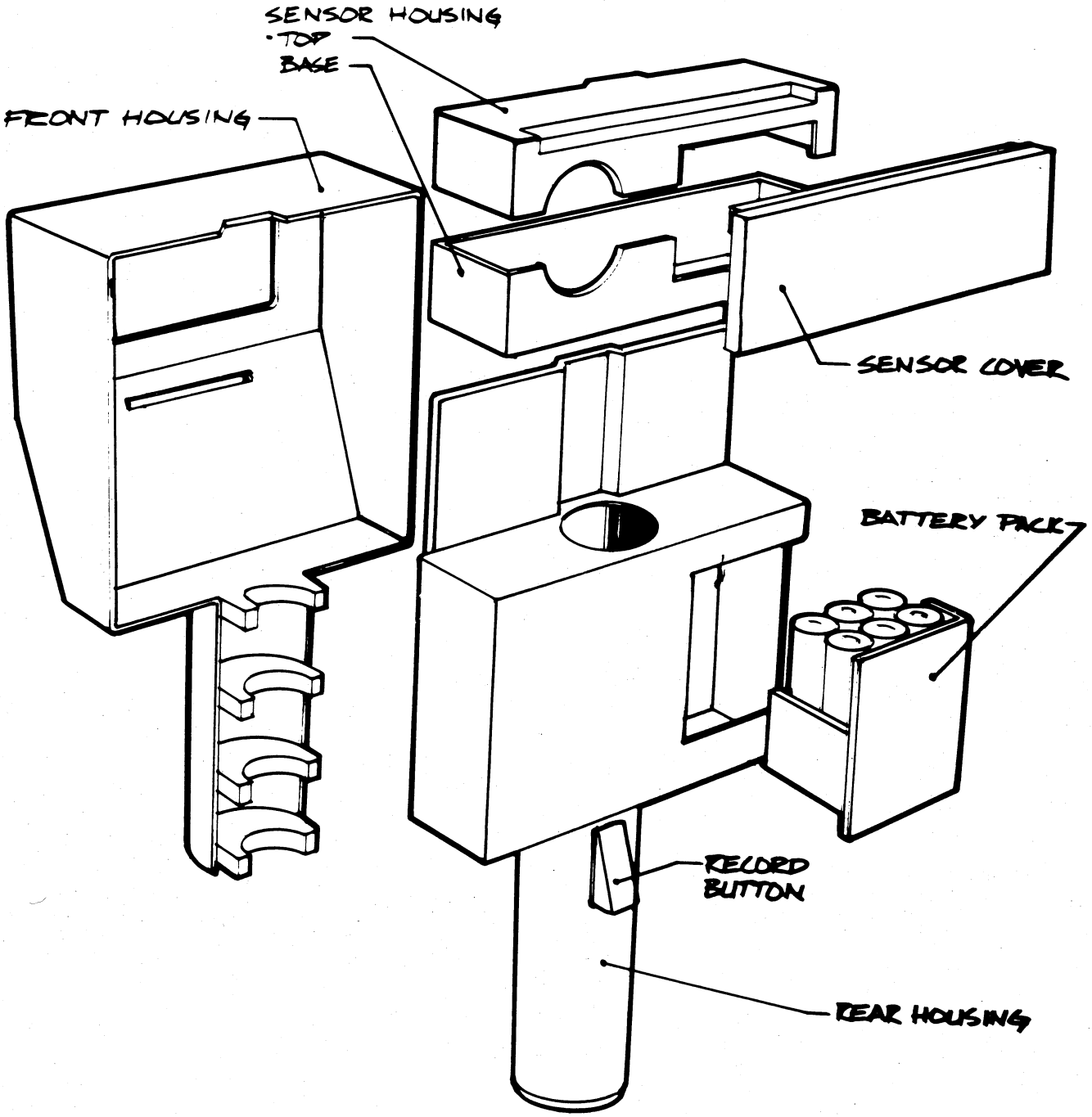
E FACILITATE STORAGE & RECORDING
STORAGE BRACKET
- HOME OR BARN MOUNT
- VEHICLE MOUNT

CHARGER
OPTIONAL PRINTER

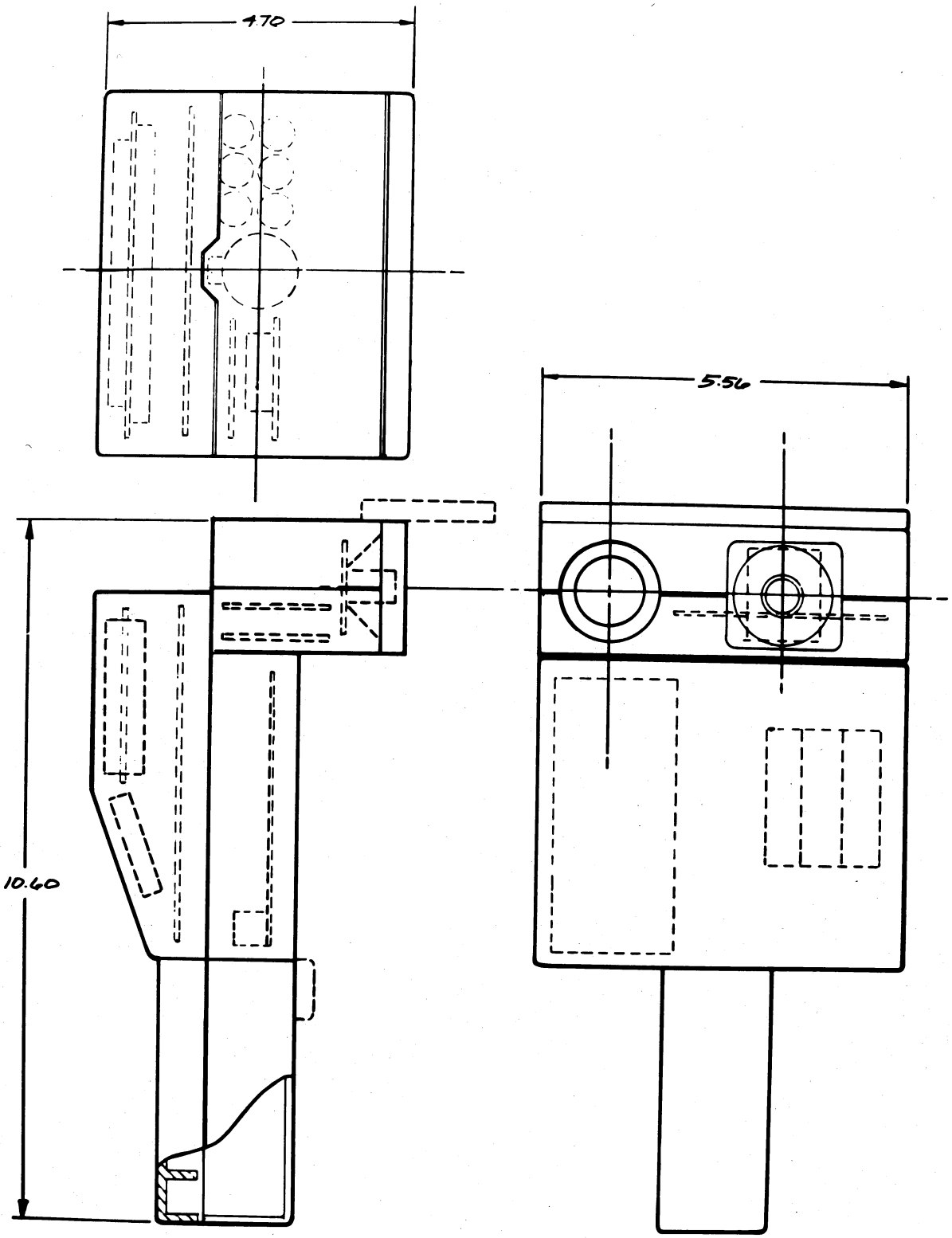
F FACILITATE SALES & SERVICE
FACILITATE SHIPPING TO/FROM CUSTOMER
SELF DIAGNOSTICS
CUSTOMER REPLACEABLE MODULES & COMPONENTS



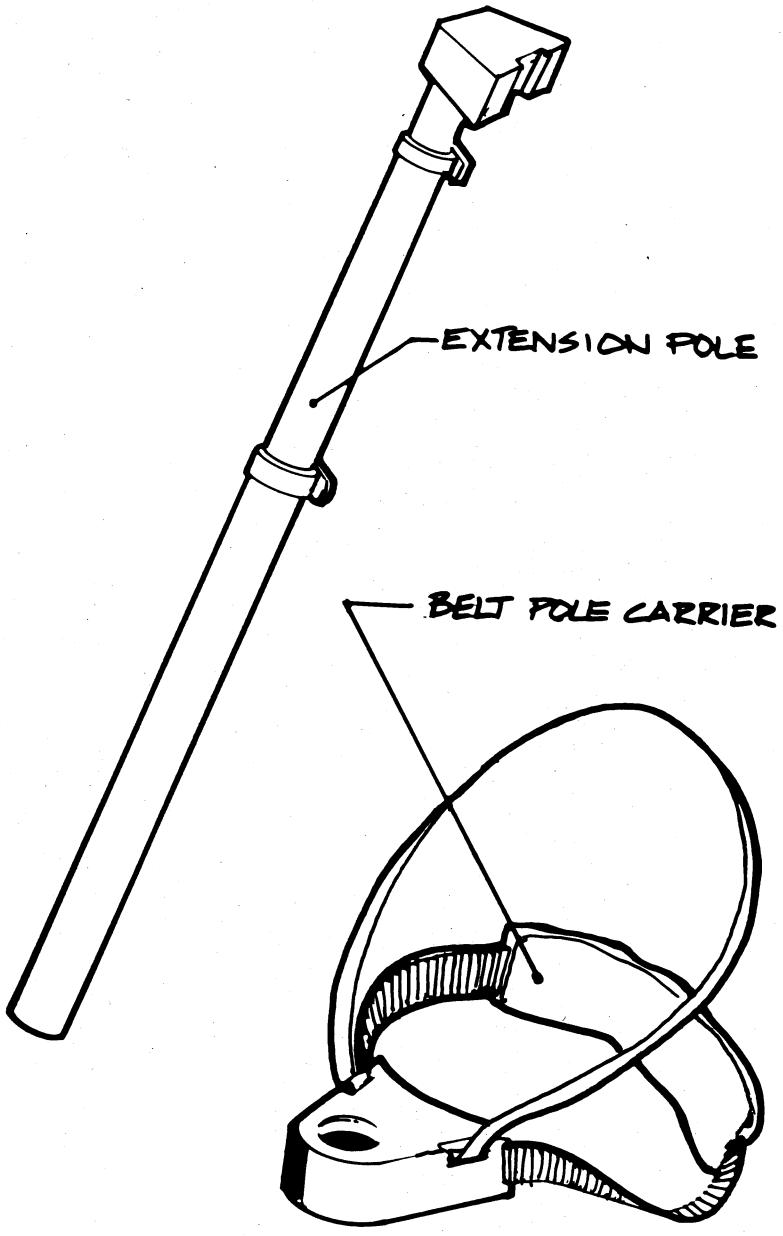
■ SYSTEM ARCHITECTURE



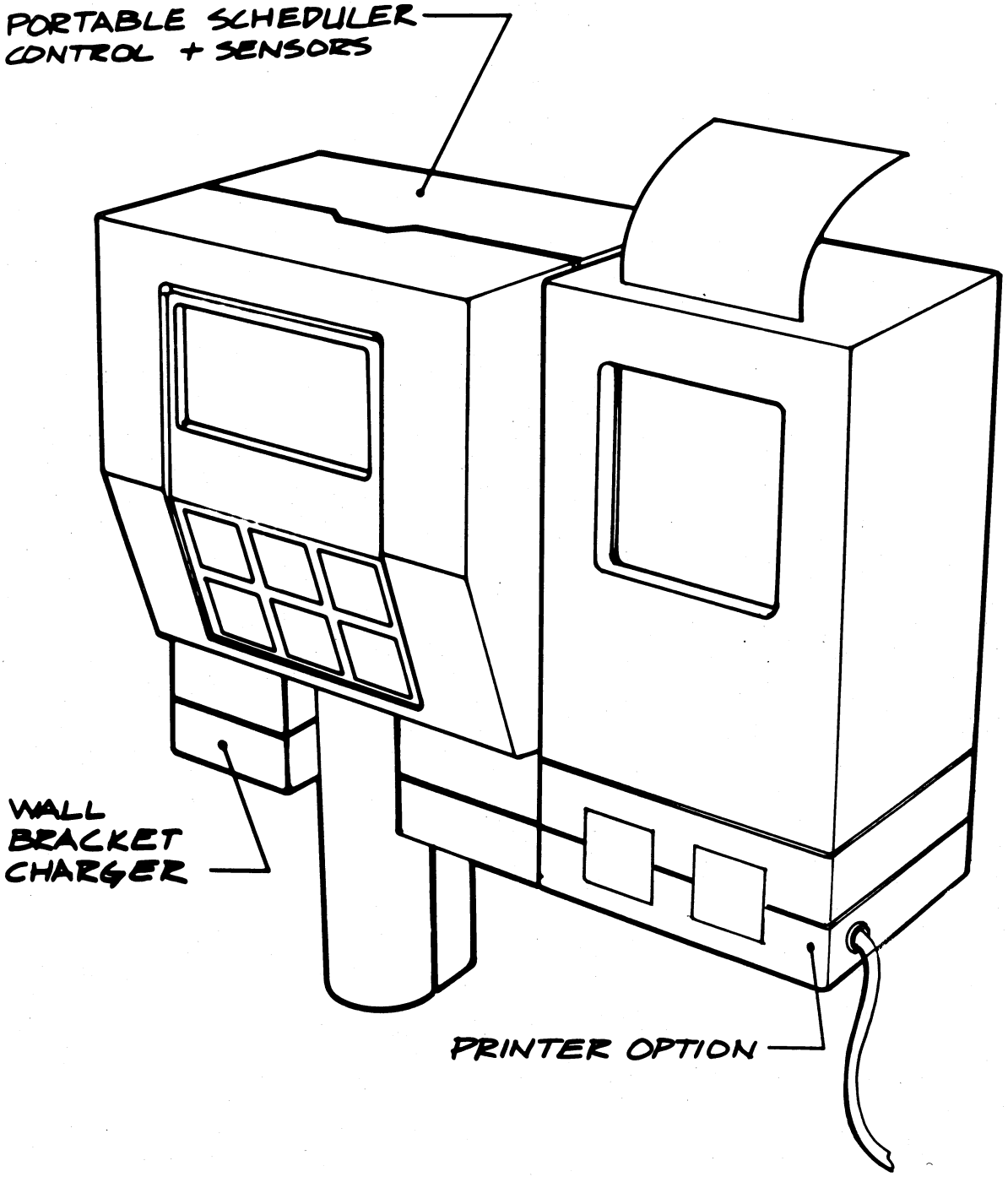
■ **EXPLODED VIEW**



■ **PLAN VIEW**



■ **POLE / HARNESS**



■ OPTIONS

CHARGER

PRINTER

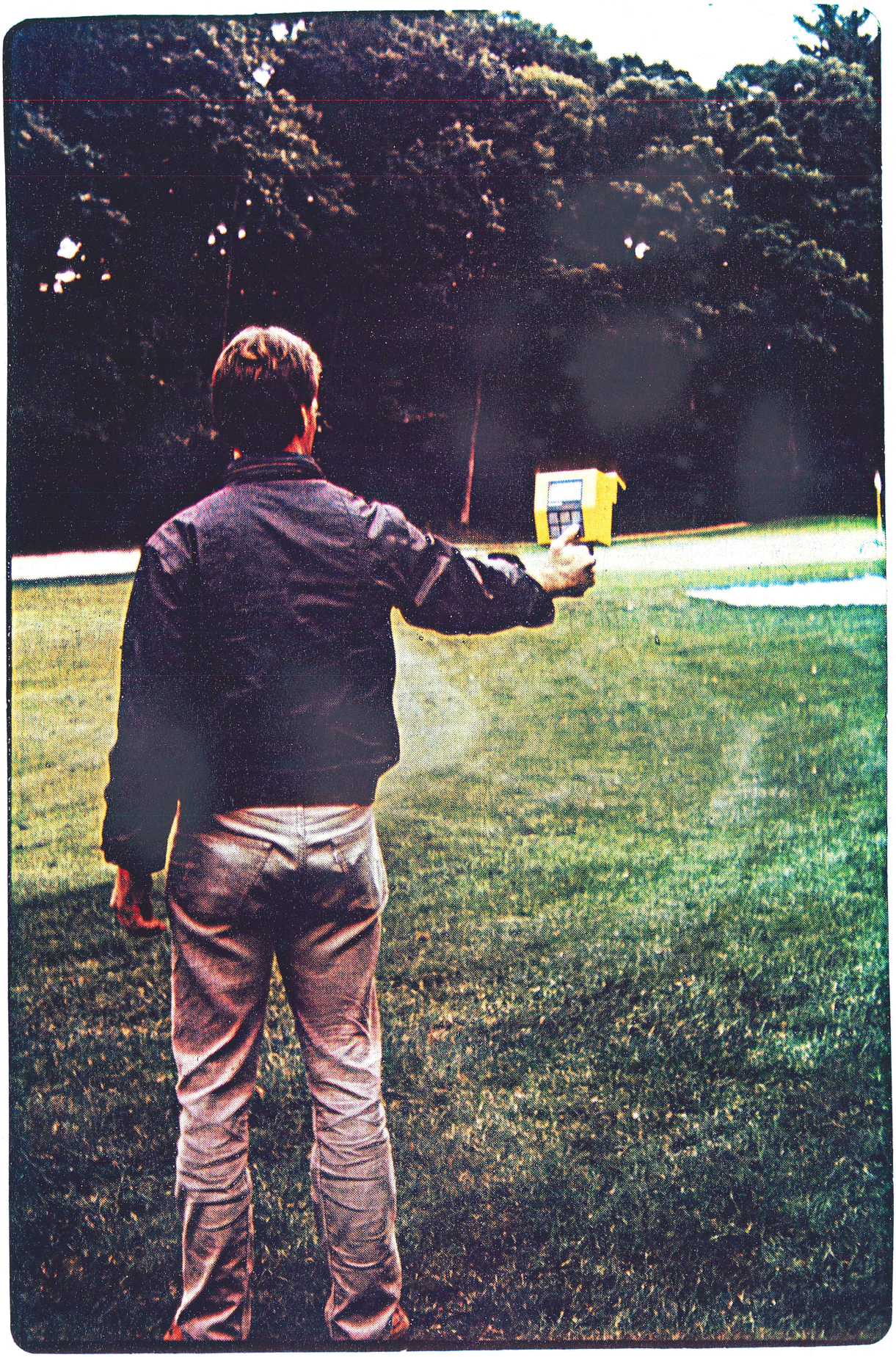
VEHICLE BRACKET

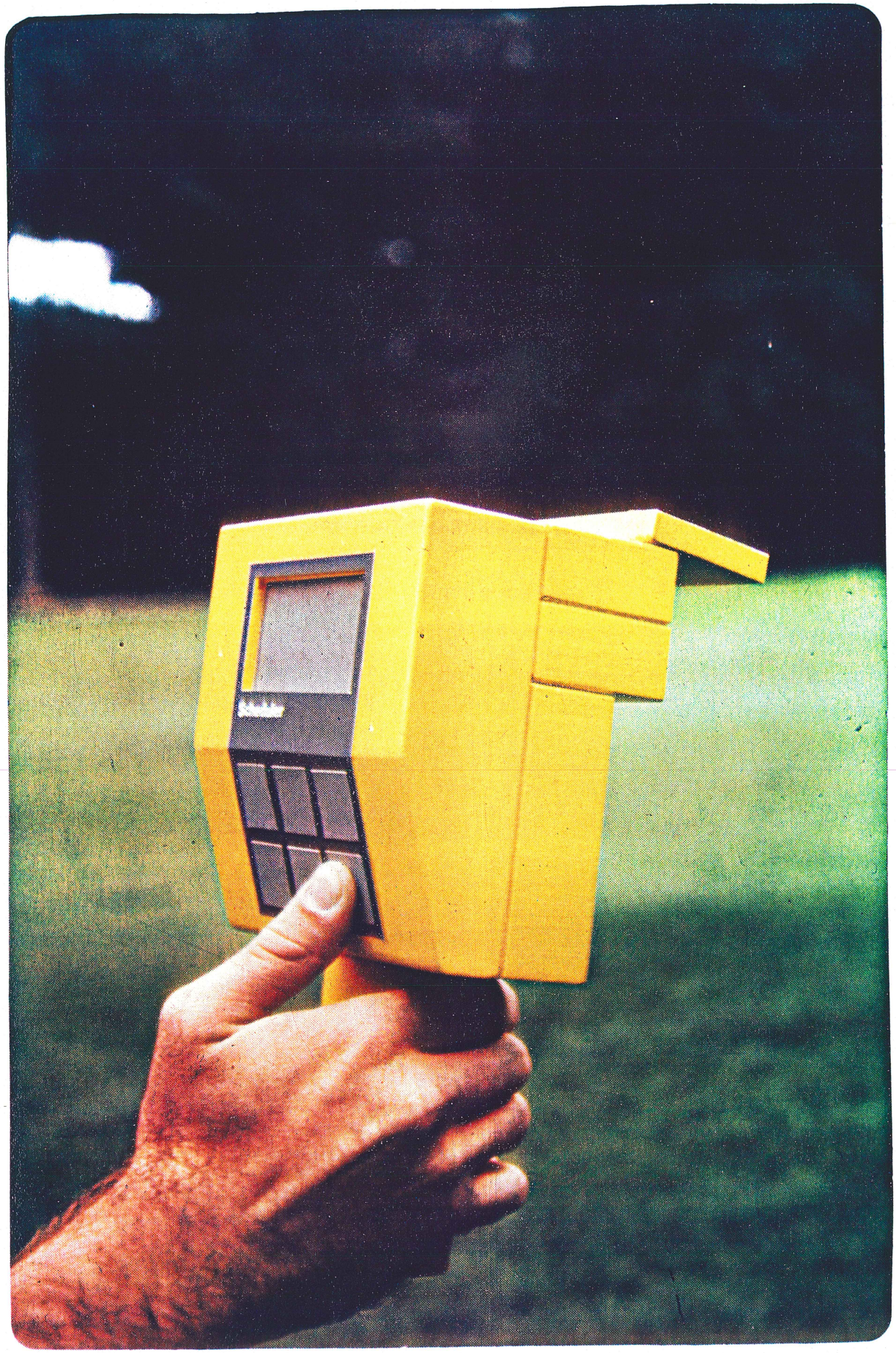
WALL BRACKET

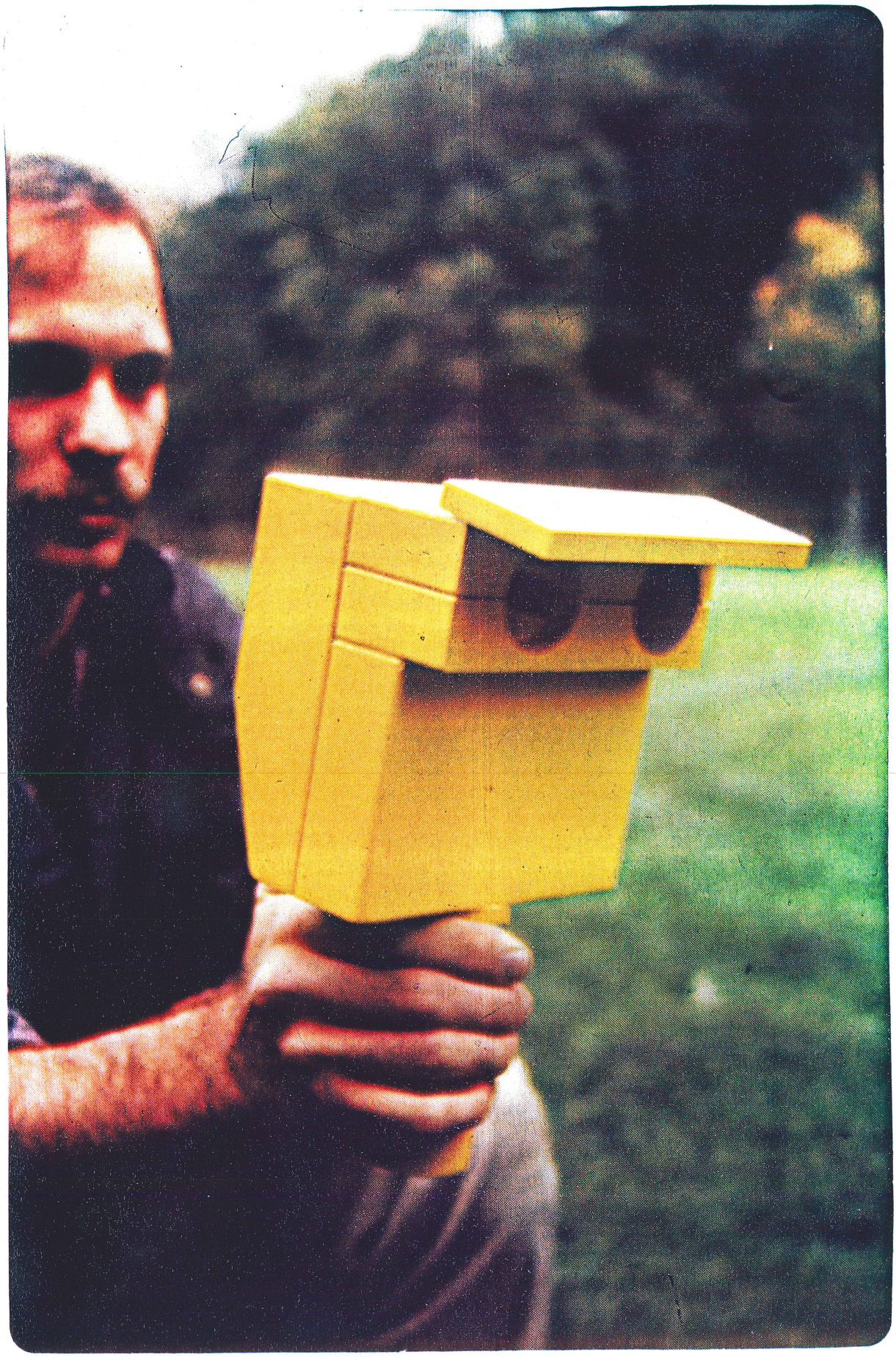
OTHER

■ APPLICATIONS

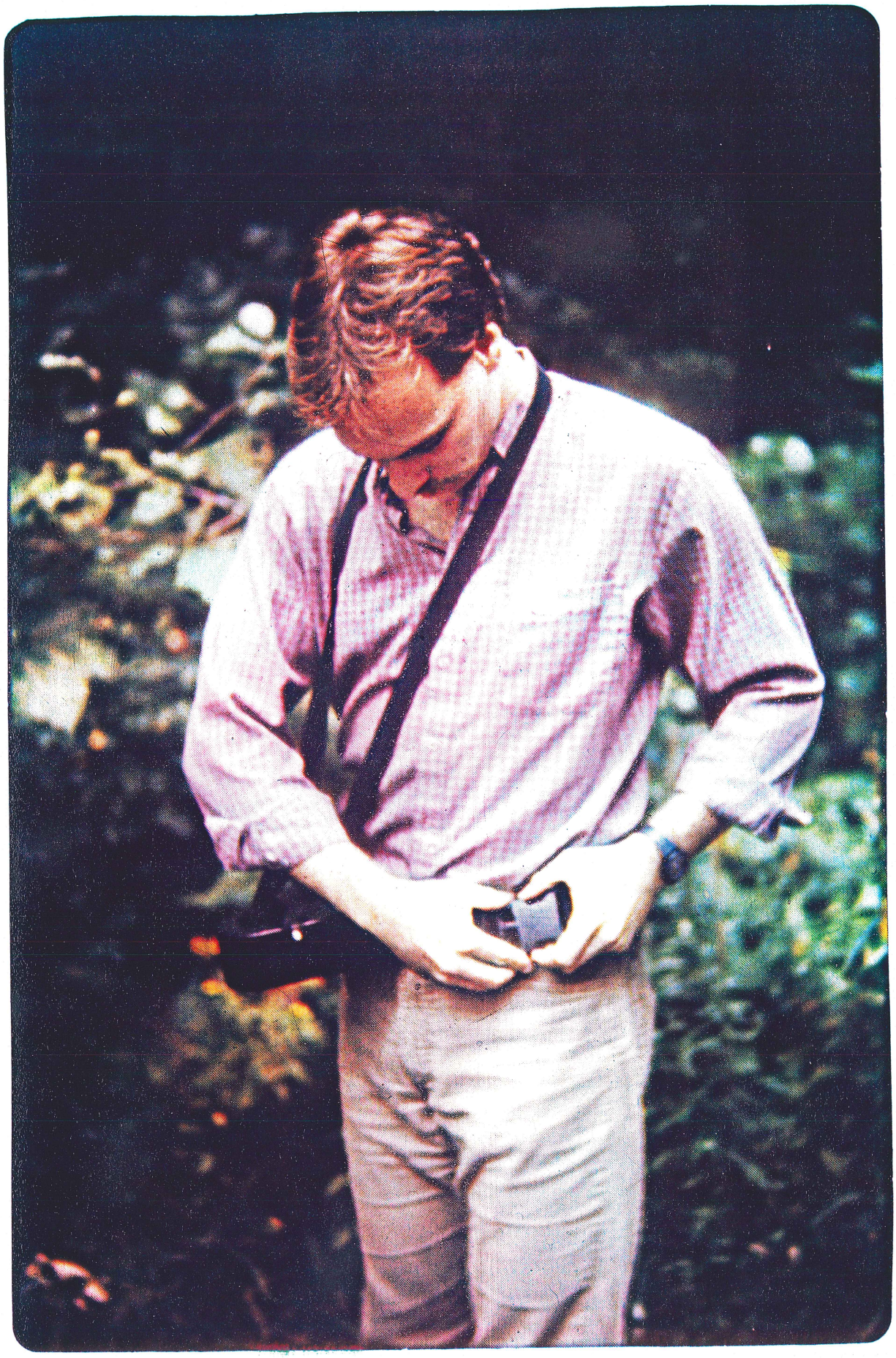
■ **SHORT CROPS**

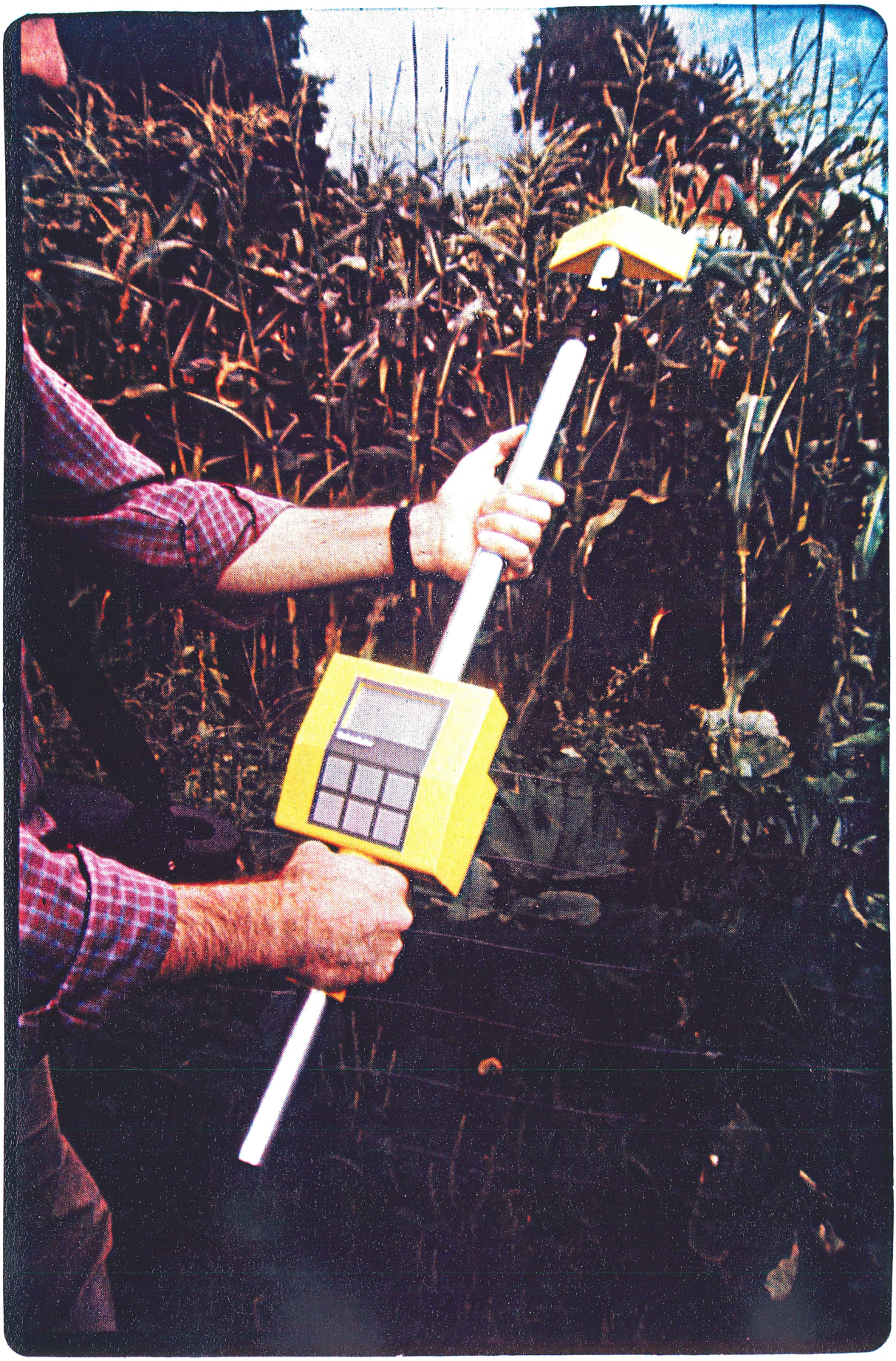




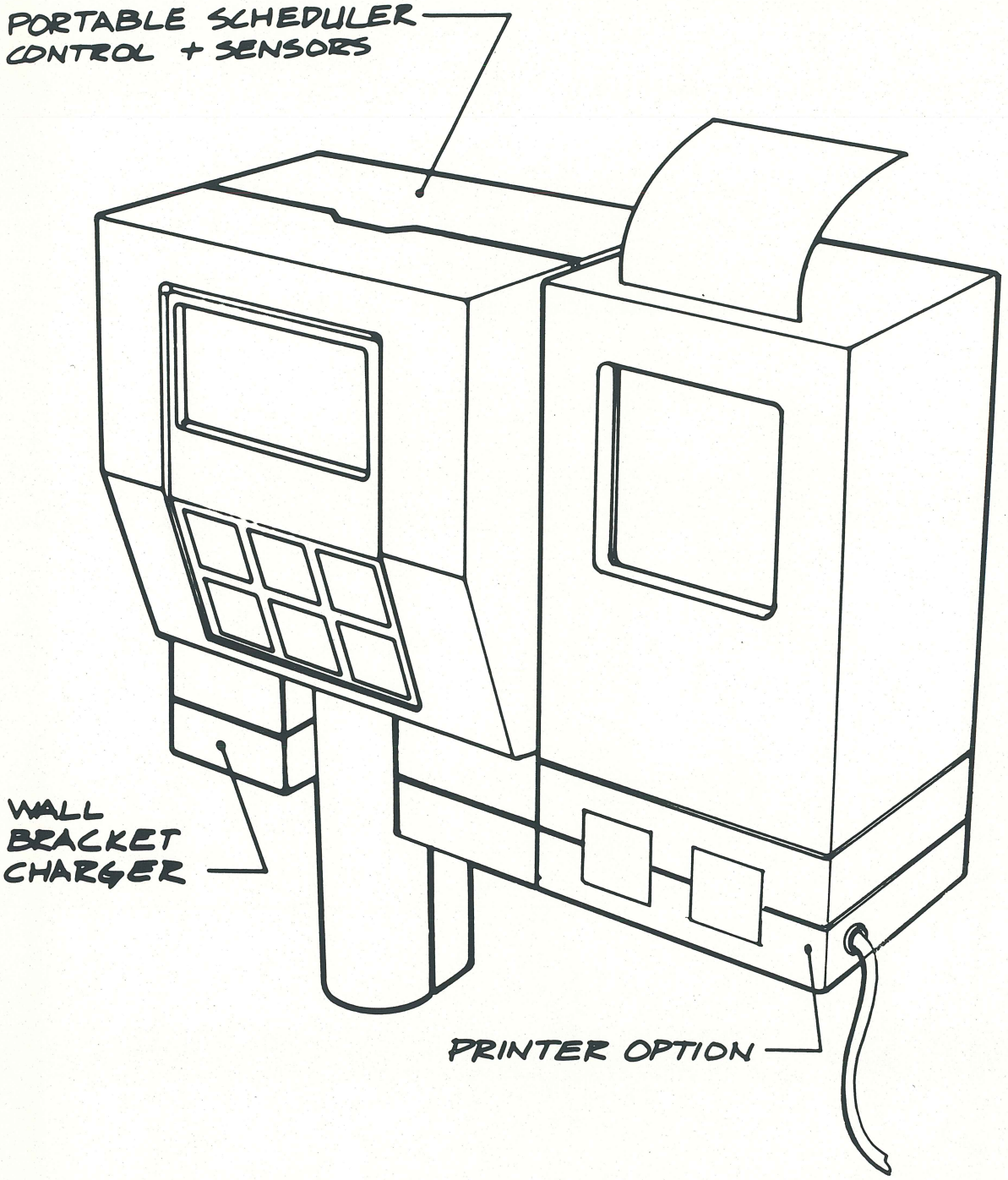


■ **TALL CROPS**





Scheduler



■ OPTIONS

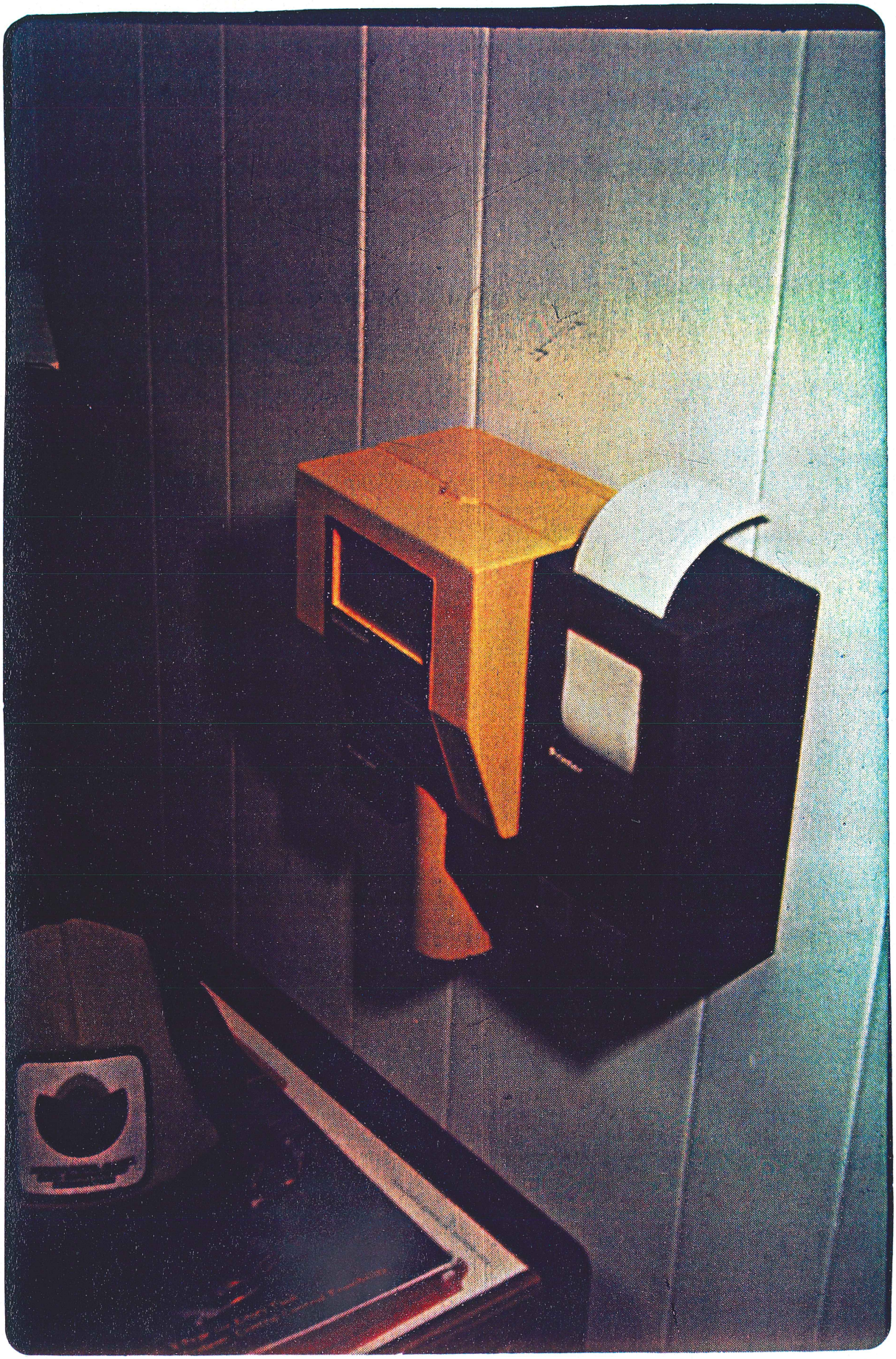
CHARGER

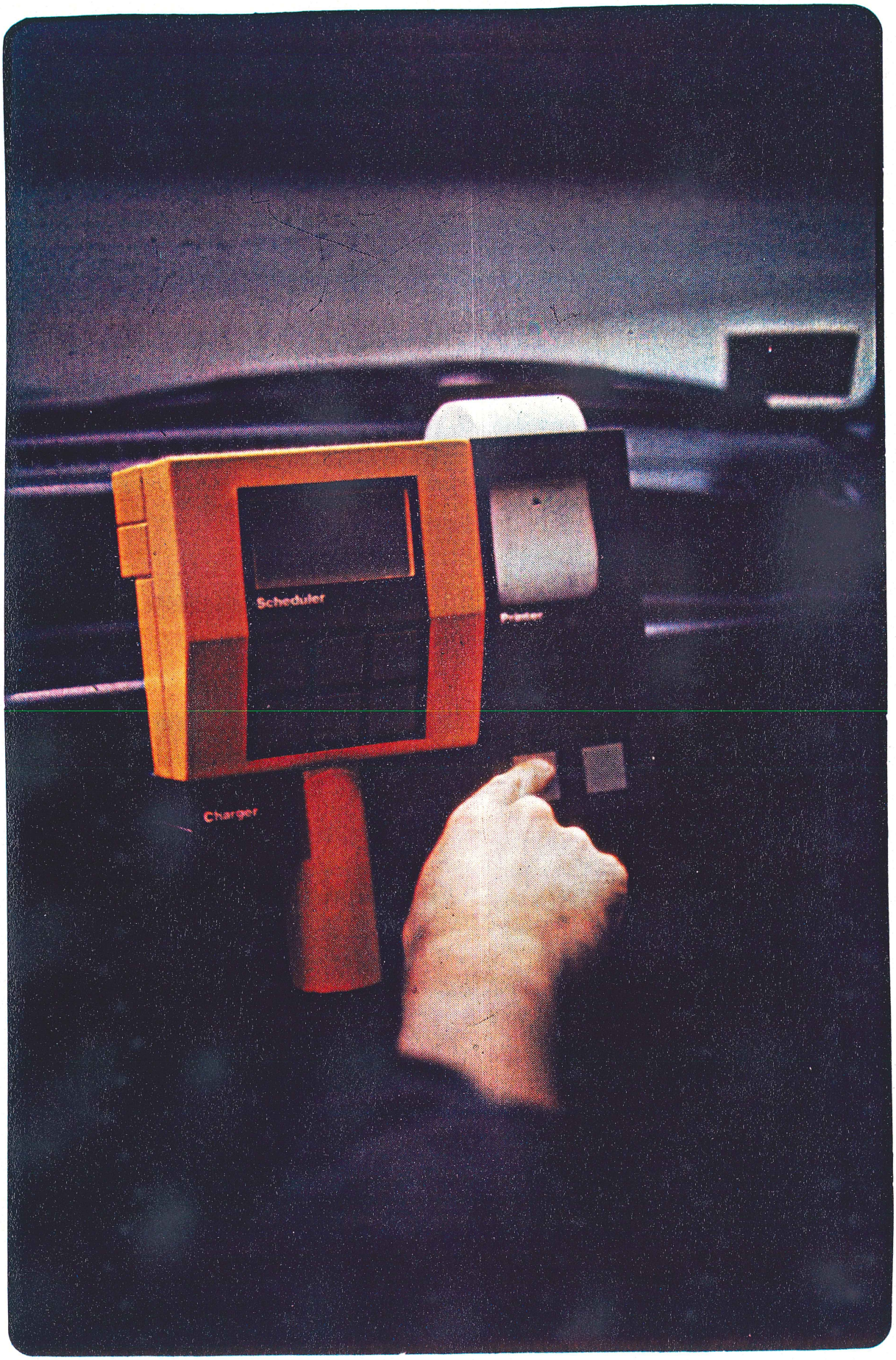
PRINTER

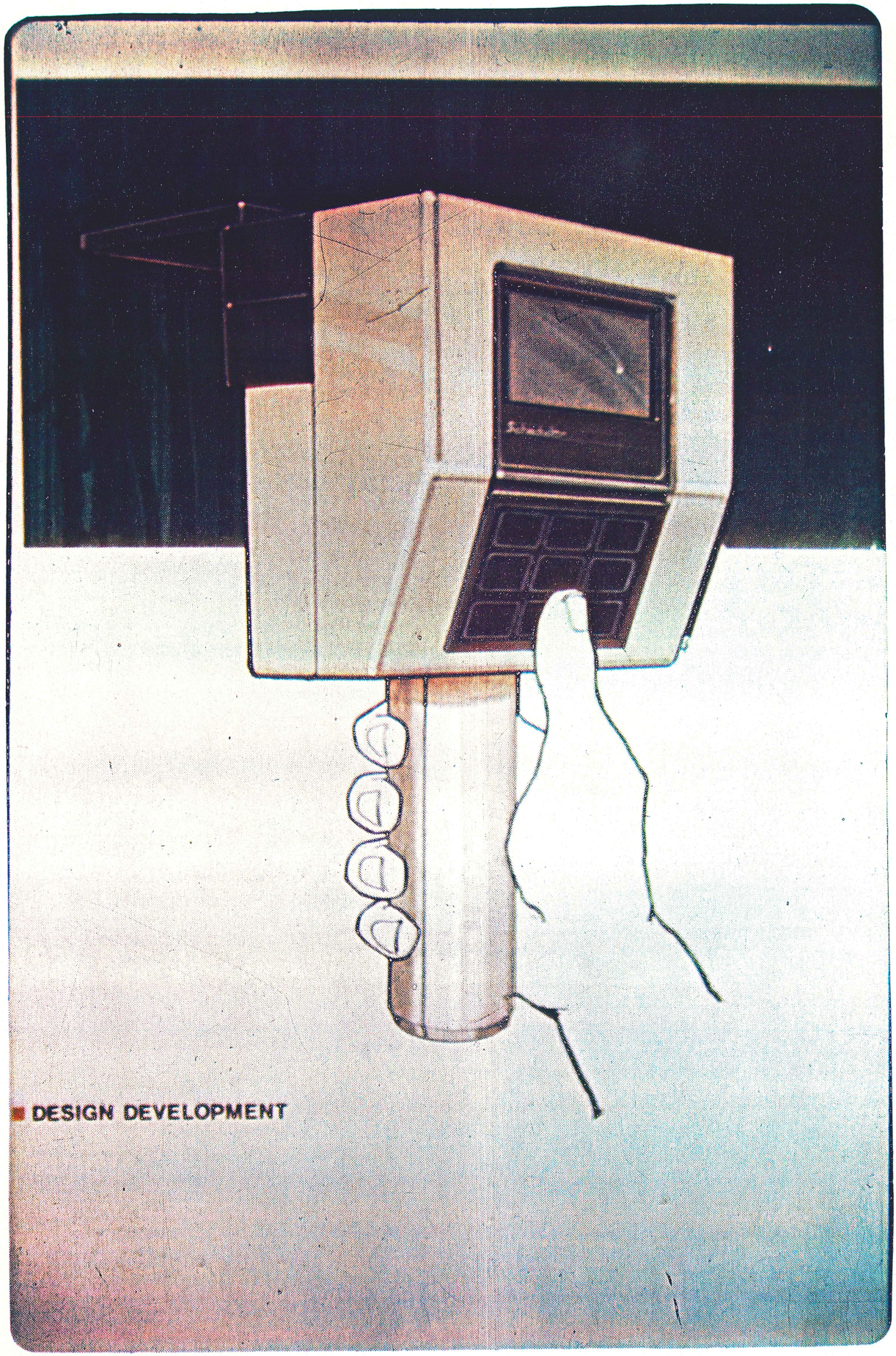
VEHICLE BRACKET

WALL BRACKET

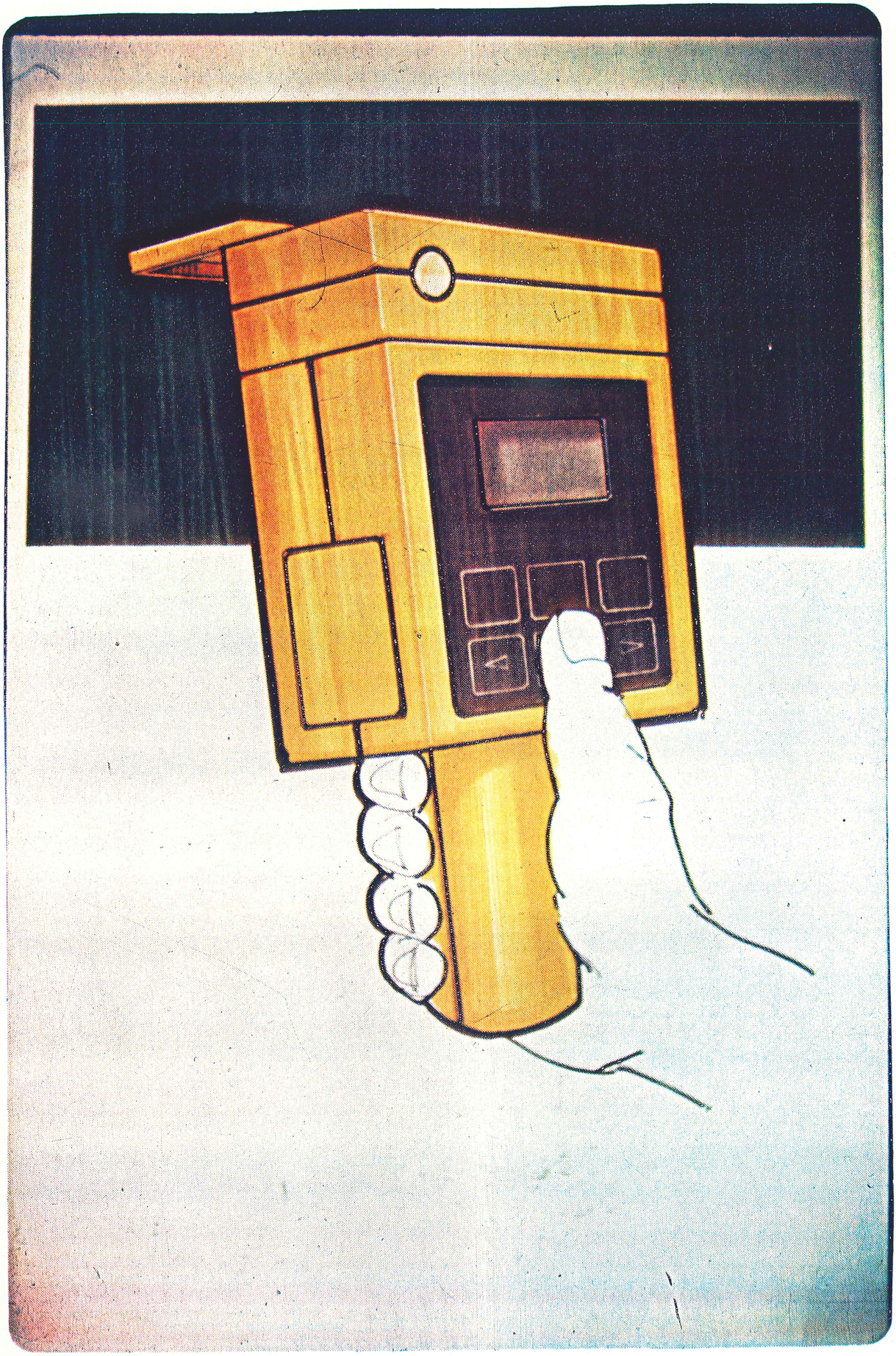
OTHER



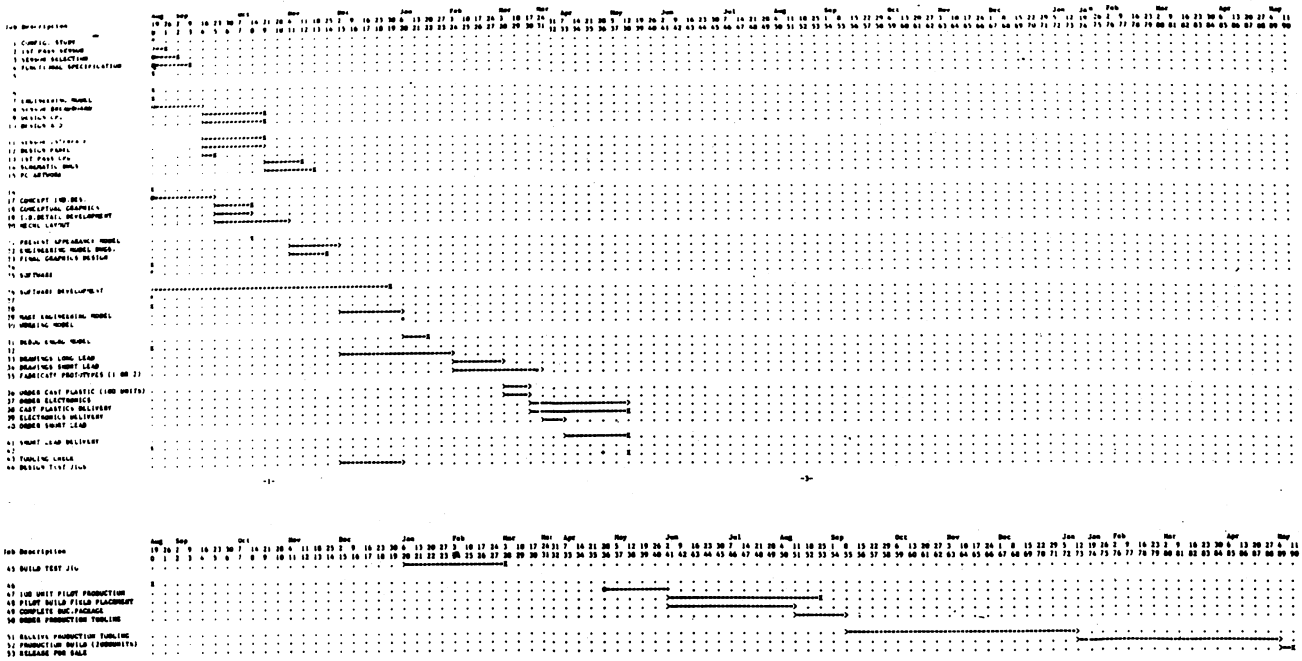

Scheduler
Charger



DESIGN DEVELOPMENT



SCHEDULE



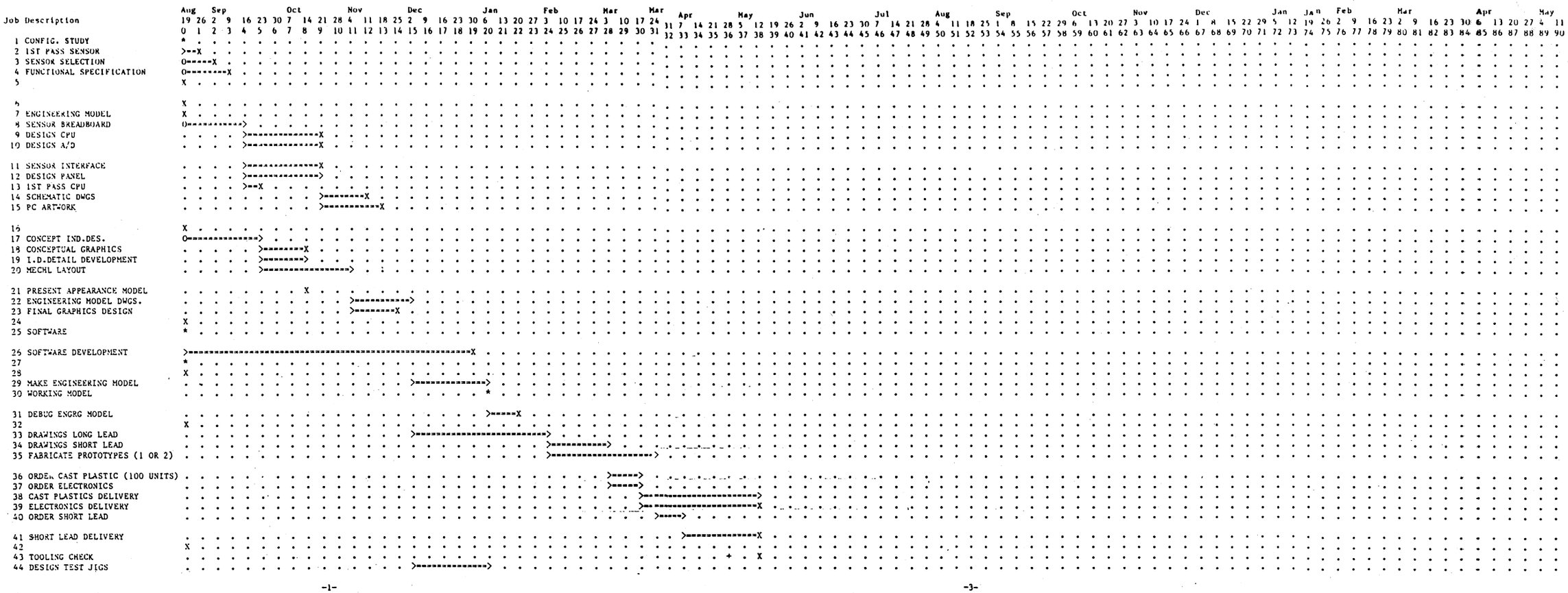
COSTS

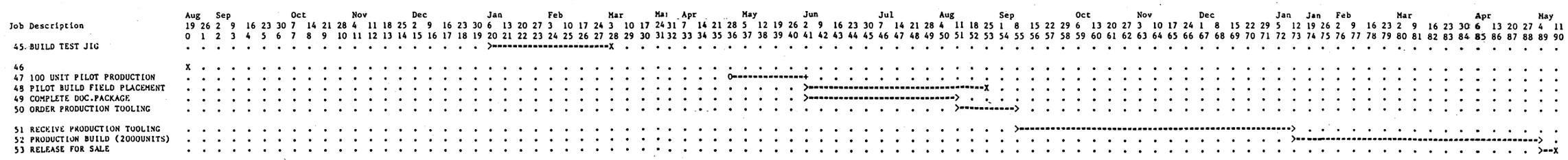
SOHIO IRRIGATION SCHEDULER
Conceptual Design Cost Analysis
DesignContinuum, September 16, 1985. Rev.0

ASSEMBLY	PART	PROCESS	MATERIAL	EST.TOOLING COST	EST.PART COST
Controller Housing	Front Shell	S.F. Molding	Noryl		$3.00
	Rear Shell	S.F. Molding	Noryl		$3.00
	Internal Core	S.F. Molding	Noryl		$3.50
	Battery Pack Door	S.F. Molding	Noryl	$82000.00	$2.50
	Record Trigger	Inject.Mold.	ABS	$6000.00	$0.25
Sensor Housing	Front Shell	S.F. Molding	Noryl		$2.75
	Rear Shell	S.F. Molding	Noryl	$27500.00	$2.75
	Hinged Sensor Cover	Compres.Mold	Rubber	$6500.00	$1.50
Extension Pole	Custom Two Channel	Extrusion	Aluminum	$4000.00	$4.00
	Custom One Channel	Extrusion	Aluminum	$6000.00	$12.00
	Sensor Braket	S.F. Molding	Valox		$3.00
	Section Clamps	S.F. Molding	Valox	$35000.00	$7.00
	Bottom Cap	Compres.Mold	Rubber	$2500.00	$0.50
Belt Pole Carrier	Padded Belt/Straps	Fabric	Nylon	$500.00	$8.00
	Pole Holder	S.F. Molding	Valox	$17500.00	$4.00
Bracket/Charger Housing	Front Shell	S.F. Molding	Noryl		$3.50
	Rear Shell	S.F. Molding	Noryl	$27500.00	$3.50
TOTAL HOUSINGS, POLE, CARRIER, AND CHARGER:>>>>>>>>>>>>>>>>>>>>>>>				$215000.00	$64.75
TOTAL SENSORS:				From Sohio	From Sohio
TOTAL DISPLAY AND ELECTRONICS:				From Sohio	From Sohio
TOTAL LABOR:				From Sohio	From Sohio
TOTAL ESTIMATED STANDARD COST:>>>>>>>>>>>>>>>>>>>

DC/SOHIO PLAN
Revision 9, 6/20/85, File SOSCHED4.DATA

DC//SOHIO PLAN
Revision 9, 6/20/85, File SOSCHED4.DATA




Job Description
Aug Sep Oct Nov Dec Jan Feb Mar Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Jan Feb Mar Apr May
45 BUILD TEST JIG
46
47 100 UNIT PILOT PRODUCTION
48 PILOT BUILD FIELD PLACEMENT
49 COMPLETE DOC.PACKAGE
50 ORDER PRODUCTION TOOLING
51 RECEIVE PRODUCTION TOOLING
52 PRODUCTION BUILD (2000UNITS)
53 RELEASE FOR SALE

Sorting order is Current order
From the first job to the last job
Jobs using all skills

Symbol-Explanation
>--> Duration of a normal job
>..> Slack time for a normal job
>==> Duration of a critical path job
>!!> Duration of a completed job
* Job with zero duration
+ Job deadline
O--> Job with no prerequisites
>--X Job with no successors
| Time break due to holiday or week-off

SOHIO IRRIGATION SCHEDULER
Conceptual Design Cost Analysis
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TOTAL DISPLAY AND ELECTRONICS:				From Sohio	From Sohio
TOTAL LABOR:				From Sohio	From Sohio
TOTAL ESTIMATED STANDARD COST:>>>>>>>>>>>>>>>>>>>

☐ Please send information on Design Continuum Inc. services.
☐ Please have a Design Continuum Inc. representative contact me.

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☐ industrial design
☐ engineering
☐ graphic design
☐ support services
☐ environmental design

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